Underway measurements metadata form

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- Dataset Info:
 - Dataset ID: FRA near-Japan pCO2 cruises
 - Submission Dates:
 - Initial Submission: 2011/12/28
 Revised Submission: 2015/03/19
- Cruise Info:
 - Experiment:
 - Experiment Name: SY1105
 - Cruise:
 - Cruise ID: **SY110521**
 - Section:
 - Geographical Coverage:
 - Geographical Region: western North Pacific
 - Bounds:
 - Westernmost Longitude: +139.9
 Degrees, Minutes, Seconds: E
 - Easternmost Longitude: +159.6
 Degrees Minutes Seconds: F
 - Degrees, Minutes, Seconds: E
 Northernmost Latitude: +42.1
 - Degrees, Minutes, Seconds: N
 - Southernmost Latitude: +34.8
 Degrees, Minutes, Seconds: N
 - Temporal Coverage:
 - Start Date: 2011/5/23
 - End Date: 2011/6/19
 - Ports of Call:

depart: Yokohama arrive: Yokohama

- Vessel:
 - Vessel Name: Soyo-Maru
 - Vessel ID:
 - Country: Japan
 - Vessel Owner: Fisheries Research Agency
- Variables Info:
 - Variable:
 - Variable Name: airP
 - Description of Variable: Atmospheric pressure at sea-surface pressure (hPa)
 - Method Description:
 - Equilibrator Design:
 - Equilibrator type: membrane equilibrator

- Equilibrator volume: 0.4
- Water Flow Rate: 2.5
- Headspace Gas Flow Rate:0.1
- Vented: Yes
- Measurement Method: automated version of Saito et al. [1995]
- Manufacturer of Calibration Gas: nissan-Tanaka Co. Ltd.
- C0₂ Sensors:
 - Manufacturer: Li-CO
 - Model: LI-6262
 - Environmental Control:
 - Resolution: 0.1 μmol/mol
 - Uncertainty: 0.1 μmol/mol
 - Calibration:

LI-6262 was calibrated at factory on Feb. 2004. CO2 concentration in standard gas cylinder was calibrated at factory with WMO scale.

- Other sensors:
 - Manufacturer: JFE Arec Co. LTD (SST), Sea-Bird (SSS)
 - Model: ACT-RS, SBE21
 - Resolution: 0.01°C (SST), 0.003 (SSS)
 - Calibration:

ACT-RS was calibrated at factory on Sept. 2010, while SBE21 was calibrated at factory on Jan.18 2011.

- Method References:
 - H. Saito et al., A compact seawater pCO2 measurement system with membrane equilibrator and nondispersive infrared gas analyzer, Deep-Sea Res., 42, 2025-2033, 1995
- Additional Information:
- Data Set References:
- Citation:
- Data Set Link:
 - URL:
 - Label:
 - Link Note: